

METHOD AND APPARATUS FOR REDUCING  
OVERHEAD ON A PROXIED CONNECTION

ABSTRACT OF THE DISCLOSURE

A system and method are disclosed for bypassing a participating application that receives data from a client connection between a proxy and a client and receives data from a server connection between a proxy and a server is disclosed. The method  
5 includes deriving a client originated packet sequence synchronization factor. The client originated packet sequence synchronization factor is derived from the difference between a last data sequence number sent by the participating application to the server and a last data acknowledgment number sent by the participating application to the client. A server originated packet sequence synchronization factor  
10 is derived from the difference between a last data sequence number sent by the participating application to the client and a last data acknowledgment number sent by the participating application to the server. A server originated data sequence number of a packet sent from the server to the client is adjusted using the server originated packet sequence synchronization factor. A client originated the data acknowledgment  
15 number of a packet sent from the client to the server is adjusted using the server originated packet sequence synchronization factor. A client originated data sequence number of a packet sent from the client to the server is adjusted using the client originated packet sequence synchronization factor. A server originated data acknowledgment number of a packet sent from the server to the client is adjusted  
20 using the client originated packet sequence synchronization factor. As a result, the data sequence and acknowledgment numbers are synchronized between the client and the server.